BRUHATH BENGALURU MAHANAGARA PALIKE

EXECUTIVE ENGINEER, YELAHANKLA DIVISION

ame of Work: Repairs and Maintenance of existing borewells in ward no 01 Kempegowda

DETAILED ESTIMATE

	Particulars	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	MOTOR REWINDING								
	Rewinding of submersible pumpset with copper winding wires of appropriate guage, as per specifications and / or directions of the departmental officials, including all materials, labour, equipment and testing. for all types of submersible pumpsets etc.(with guarantee period not less than 6 months) for For all types of submersible pumpsets above 7.0 HP and upto 7.5H.P (BWSSB 'SR 2023-24 P- 147)								
1	For all types of submersible pumpsets above 10 HP and upto 11 H.P	No					20.00	5257.00	105140.00
2	For all types of submersible pumpsets above 12 HP and upto 13 H.P	No					20.00	5983.00	119660.00
	B) Repair of Pump parts								
	Replace the components of submersible pump sets, requiring replacements decided by the departmental officials, with respective make of damaged ones, including all materials, labour, equipments and testing etc.(with gurantee of period not less than 1 year) for: (BWSSB SR 2023-24 P- 145 I- 13.2.1 to 13.2.17)								
3	The bowls of same type and make	Each					20.00	1500.00	30000.00
4	The Intermediate piece (IP) with IP leaded bronze brush.	Each					20.00	1050.00	21000.00
5	The Oil Seal.	Each					20.00	350.00	7000.00
6	The Oil Seal.and steel bush	Each					20.00	250.00	5000.00
7	The Guide Vane	Each					20.00	700.00	14000.00
8	The Impeller (Shell moulded with aluminium and bronze.)	Each					20.00	1500.00	30000.00
9	The discharge outlet (DO) bearing DO steel brush DO bearing	Each					20.00	2050.00	41000.00
10	The steel bearing bush (DO steel bush)	Each					20.00	400.00	8000.00
11	The allen screw	Each					20.00	1200.00	24000.00
12	The pump shaft made out of stainless steel counterless ground with key way (upto 8 stages). Extra for Each stage @ Rs.40/-.	Each					20.00	1500.00	30000.00
13	Pump key (stainless steel)	Each					20.00	650.00	13000.00
14	Pump coupling (stainless steel)	Each					20.00	1500.00	30000.00
15	Non-return valve (NRV) assembly complete with rubber 'O' ring	Each					20.00	650.00	13000.00
16	Cable Guad	Each					20.00	350.00	7000.00
17	Strainer	Each					20.00	450.00	9000.00
18	Brass filter	Each					20.00	1050.00	21000.00
19	The Labour Charges for overhauling of the pump set.	Each					20.00	900.00	18000.00

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SL No	Particulars	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amou
	C.Replacement of Motor parts Replace the components of motor parts of submersible pump sets, items requiring replacements decided by the departmental officials, with respective make of damaged ones, including all materials, labour, equipments and testing etc and wtih guarantee/warranty for one year for: (BWSSB, SR 2023-24, Page No. 148, Item No.13.3.7 to 13.3.21)								
20	Upper Flange	Each					20.00	650.00	13000.00
21	Lower Flange	Each					20.00	650.00	13000.00
22	Lower Housing	Each					20.00	1200.00	24000.00
23	Lock Ring	Each					20.00	350.00	7000.00
24	Carbon Housing	Each					20.00	2000.00	40000.00
25	The Carbon Housing (Thrust bearing block assembly complete with segment bearing pad.	Each					20.00	2200.00	44000.00
26	The Carbon Housing (Top carbond / ferrodo padding)	Each					20.00	350.00	7000.00
27	Stud and Nuts	Each					20.00	200.00	4000.00
28	The Gun Metal bearing, centrifugally cast Aluminium Bronze bearing bush	Each					20.00	850.00	17000.00
29	Circlips	Each					20.00	200.00	4000.00
30	Motor base with pin	Each					20.00	500.00	10000.00
31	Transportotion of pumping machineries	Each					20.00	1500.00	30000.00
32	Labour charges Over hauling only) Motar	Each					20.00	3000.00	60000.00
33	Labour charges for Lifting of non functioning submersible pump set along with cable and GI pipes (Each length = 6m)). for 50 mm (BW SSB SR 2023-24 P- 142 Item No.12.24)								
		Job	20	35.00			700.00		
							700.00	229.00	160300.00
34	Labour charges for Erection of new / repaired submersible pump set along with GI pipes (32mm / 50mm), cable (New submersible pump set if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (Each length = 6 m) (BWSSB SR 2023-24 P- 142 Item No.-12.28)								
		Job	20	35.00			700.00		
							700.00	187.00	130900.00
35	Supplying and Drawing 3 Core Flat PVC Shelted Submerisible Pump Cable Manufactured With Electrolytic grade copper with flexible copper conductor confirming to table 3 class 5of IS 8130-1984 and Virgin PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts as per IS-694:1990. 3C x 4.0Sqm (Page No:7 Iten No:2.6.2 ELE SR SR 2023-24)								
		RMT	150						
							150.00	168.00	25200.00
36	Supplying and Drawing 3 Core Flat PVC Shelted Submerisible Pump Cable Manufactured With Electrolytic grade copper with flexible copper conductor confirming to table 3 class 5of IS 8130-1984 and Virgin PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts as per IS-694:1990. 3C x 6.0Sqm (Page No:7 Iten No:2.6.3 ELE SR SR 2023-24)								
		RMT							
							150.00	245.00	36750.00

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	Particulars	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	bricating supplying and mounting MS box made out 14SWG suitable for floor wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete., (PWD Electrical SR- 2022-23 , Page No:20, Item No:5.42.1) **1200x850x2=2040000, 850x350x2=595000, (350+450)/2=400, 400x1200=480000, 480000x2=960000, 3595000/100=35950Sqcm**								
		Sqcm							
			4		35950.00		143800.00		
						Total Qty	**143800.00**	**0.50**	**71900.00**
38	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. Flat.....with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 40 x 40 x 6 mm (PWD Electrical SR 2023-24 , Page NO:20, Item No:5.41.1.(Per leg 2. 5MtrX2 Nos legs)-5.00 Mtr Per Box								
		Mtrs							
			4	5.00			20.00	305.00	6100.00
39	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (PWD Electrical SR 2023-24 P-18, I- 5.18.9)								
		Each							
			6				6.00	3088.00	18528.00
40	Supplying & fixing of Porcelain fuse channel with cutout on existing wooden/panel using necessary nuts, bolts and washers. (PWD Electrical SR 2023-24 P-14, I-5.7.3)								
		Each							
			7				7.00	401.00	2807.00
41	Providing, Laying and Fixing of GI pipes conforming to IS 1239:1990 with latest amendments complete with GI fittings (excluding the cost of fittings) with cuts and threads wherever necessary, including testing for water tightness, with all lead and commissioning. (contractor will make his own arrangements for procuring water for testing) For:Heavy Duty GI Pipe etc. complete. Light Duty GI pipe of 50mm dia (BWSSB SR 2023-24 P-127, I-11.1.6)								
		Mtrs							
			200				200.00	442.00	88400.00

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SL No	Particulars	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount
	Providing Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications, to work site as per necessary ammendments and instructions of engineer incharge of work.(BWSSB 2023-24, P-153, I-13.17.7, 13.16.7 & 13.18.6)								
42	**For 12.50 HP - 90 LPM @ 264 m = 24 STG Outlet Dia - 2.00"**	No							
			2				2.00	64128.00	128256.00
43	**15.00 HP - 120 LPM @ 266 m = 23 STG Outlet Dia - 2.00"**	No							
			1				1.00	69344.00	69344.00
44	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50mm dia (BWSSB SR 2023-24, P.154, I-13.25.1)								
		Each							
			5				5.00	1250.00	6250.00
45	Supply and delivery at site wrought middle steel (galvanized) GI union confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI Union (BWSSB SR 2023-24 P-131, I-11.12.6)								
		Each							
			5				5.00	267.00	1335.00
46	Supply and delivery at site wrought middle steel (galvanized) GI elbow confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI Union (BWSSB SR 2023-24 P-129, I-11.7.6)								
		Each							
			5				5.00	267.00	1335.00
47	Supply and delivery at site wrought middle steel (galvanized) GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI hexagonal nipple (BWSSB SR 2023-24 P-132, I-11.14.6)								
		Each							
			5				5.00	213.00	1065.00
48	Providing wrought mild steel (galvanized) GI collar confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI collar (BWSSB SR 2023-24 P-129, I-11.14.6)								
		Nos							
			40				40.00	267.00	10680.00
49	Logging / scanning of borewell at any depth continuously with the help of Logger unit including the cost of transportation charges, crew charges, stationery charges and cost of consumables etc. (BWSSB SR 2023-24 P-140, I-12.7)								
		Each							
			5				5.00	3674.00	18370.00
50	Lifting of struck up Submersible Pump set, upto 300 ft (BWSSB SR 2023-24 P-142, I-12.26)								
		Job							
			5				5.00	6806.00	34030.00

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Particulars	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
itting and threading G.I. pipes for pump fitting, public fountains with ppurtenances., where the length of pipe laid is less than 6 metres Pipes of dia 32mm to 80mm (BWSSB SR 2023-24 P-15, I-2.2.2)								
	Each							
		200				200.00	322.00	64400.00
							Total Construction Cost	1694750.00
							Add GST Charges 18%	305055.00
							Sub Total-2	1999805.00
							Misc and rounding off	195.00
							Grand Total Amount	2000000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of 2023-24 (KPWD, ELE, BWSSB)

Assistant Engineer
Ward No.08
BBMP, Bangalore

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP, Bangalore

Executive Engineer
Yelahanka Division
BBMP, Bangalore

Administrative Sanction for Rs. 20.00 Lakhs
Rupees Twenty lakhs Only
is accorded under head P-1802
Registered as CE No. 22 Subject to conditions contained in enclosed memo No. BBMP/EE/YNK-D/AS/22/23-24 Dt. 2/2/2024

Exe:

Technical Sanction
Accorded For 20.00 Lakhs
Head of A/C P-1802
CER NO :70 Dt. 2/2/24

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